

MAKAYA

Machinery & International Trading

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Concrete Block Production Facility



RIGHT INVESTMENT FOR YOUR SUCCESS

High-Quality

Quick Solutions

Timely Delivery

Easy Access

Robust Experienced

Spare Parts Support

Technological

Secure

Professional

Customer Focused

Showing up in Turkey and the Middle East market, we aim to reach the entire world by expanding our vision with MRG series fully automatic concrete paving stone, briquette and border production facilities.

With the experience and knowledge we have acquired over the years, we are a leading organization aiming to add value to our customers.

In the future as in the past, our indispensable mission will be satisfied customers and happy staff.

MRG-3615 Concrete Block Machine

PLC controlled full automatic MRG facilities are presented as a solution for investors who want to improve the product quality and minimize production costs.

MR-3615 Concrete Block Machine is a fully automatic machine working according to hydraulic print and mechanical vibration principle capable of producing prefabricated concrete elements such as locked or unlocked paving stones, grass pavers, concrete curbs, gutter stones, bricks and hollow blocks.

Thanks to the touch-operated screen and visual interface showing the details of each unit of the plant, every phase of the production can be monitored also allowing manual intervention to the system as needed.

○ The special vibration system
developed by our company ○

○ Production, data archiving
and reporting options ○

○ Different production speeds
which can be programmed
according to investor demand ○

○ Ease of production at precise
measures with special sensors ○

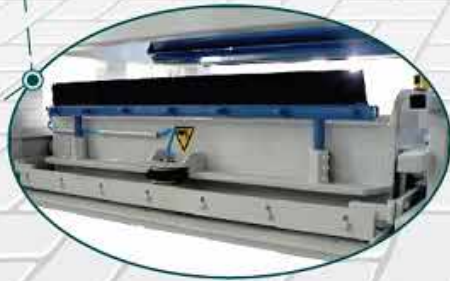




Advanced Automation System

Thanks to an advanced automation system, it ensures not only ease of use by a single operator but also facilitates setting of machine movements as desired and remedy the problems that may occur during operation.

With the newly developed control panels; easy and smooth system control can be done. Managing the whole plant, the automation system provides the same amount of production in each shift with the same quality in all prints.



Custom-Design Vibration System

The vibration system used in all MRG plants is designed specifically by our company for products to reach the same high quality in each printing.

A high compression ratio is obtained in all mixtures due to the vibration between 5000 and 8000 rpm provided by speed adjustment with the control panel.

Mold Filling Reservoir

Thanks to the developed bellows system, material residue of the mold filling machine refilling the reservoir without compromising the speed.

The bottom of the mold is cleaned of sediments with the custom-made machine brush made of plastic and wire preventing adhesion of impurities onto the surface of the stone ultimately resulting in smoothness at the highest level.



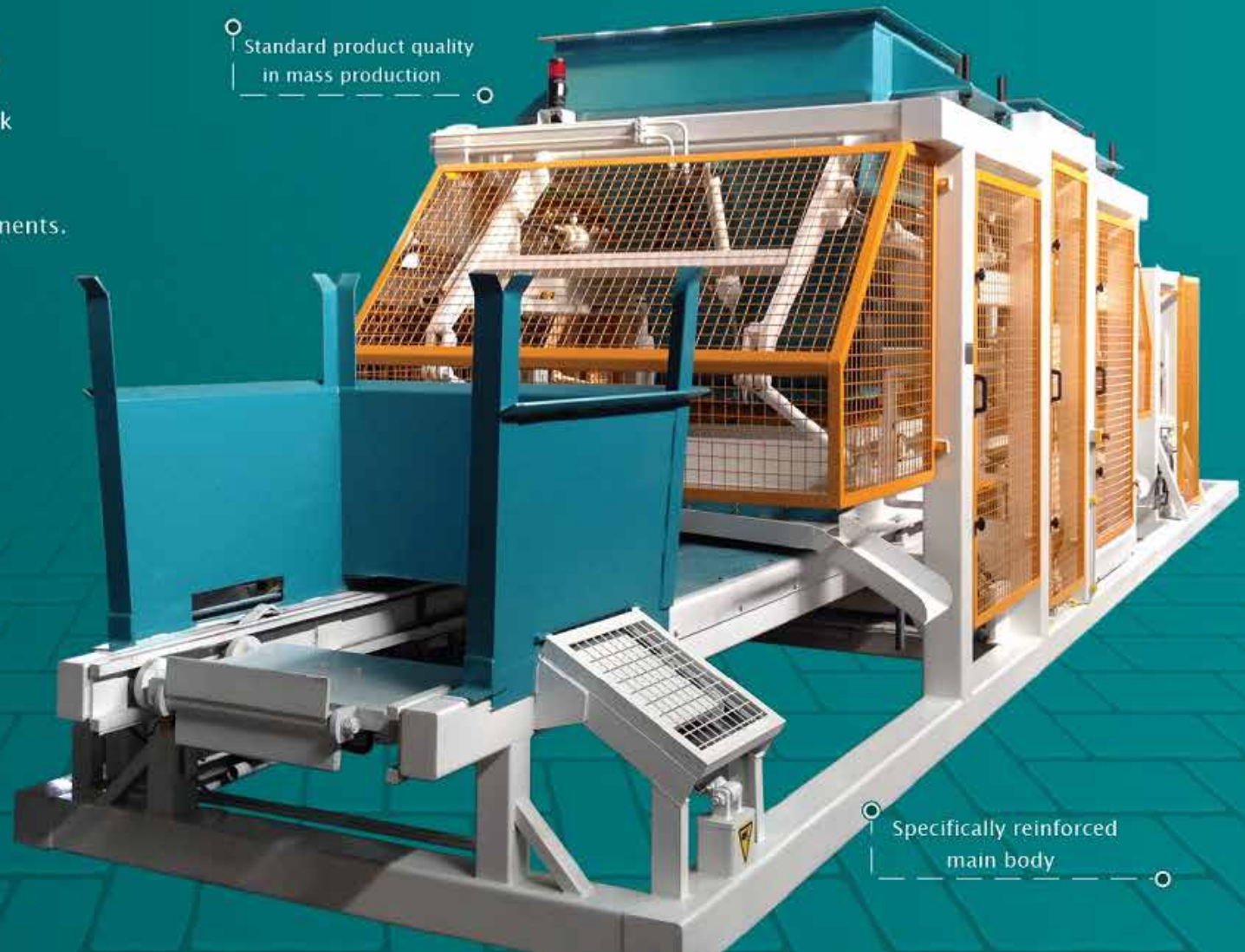
MRG-2515 Concrete Block Machine

MRG-2515 is a high performance fixed block producing machine. It stands out technically with high-quality mechanical, hydraulic and electronic components.

Featured Properties;

- PLC control system
- Special industrial vibration system
- Decorative filling tray
- High pressure hydraulic pipes and hoses
- Bearings made of brass cage resistant to high speed
- Induction hardened chrome-plated shafts

Standard product quality
in mass production



Specifically reinforced
main body



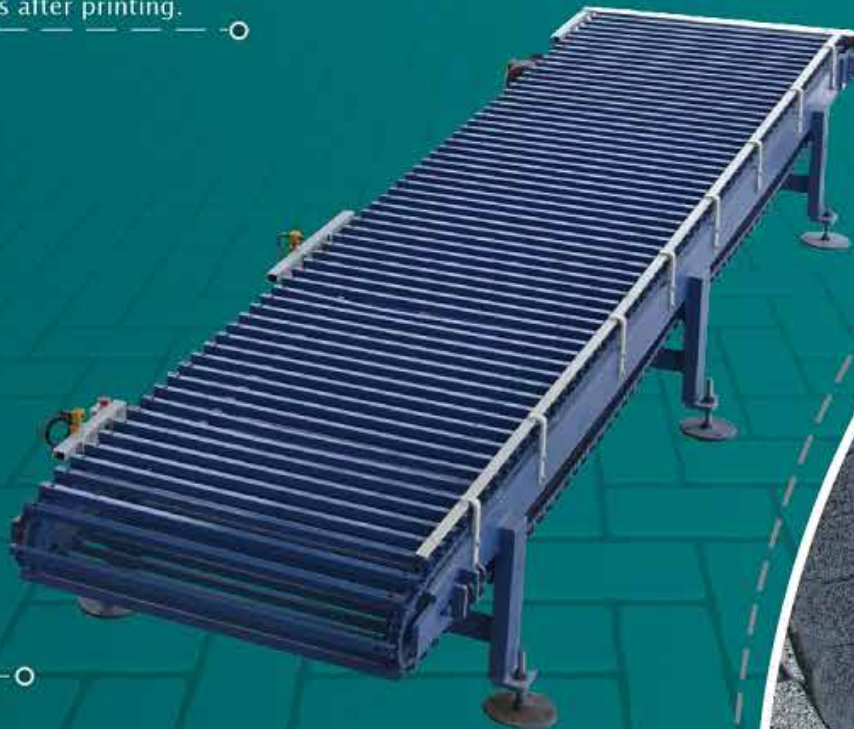
Picking Robot

Picking robot designed according to the demands of our customers ensures automatic stacking on pallets of products obtained from printing without the need for manpower in production.





- Picking cap equipped with precision measuring instruments allows unharmed collection of products after printing.



- Reinforced conveyor band designed for picking robot

- ✚ Picking robots are manufactured to work compatible with all brands and models.

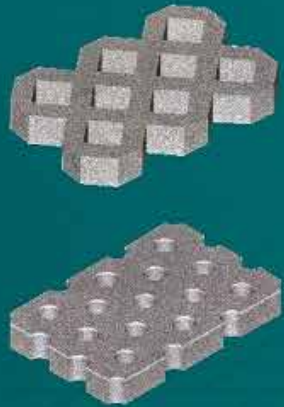


Paving Stone, Bricks and Concrete Block Molds

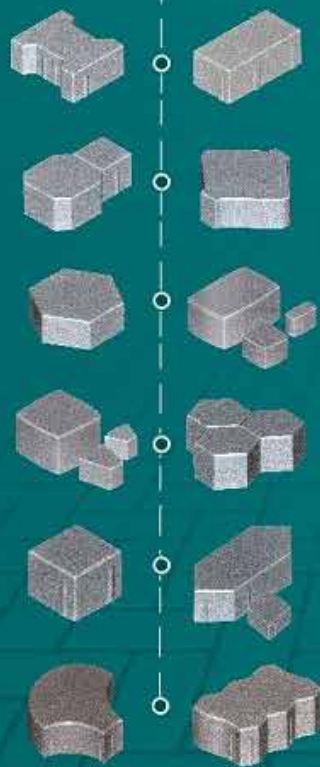
Our molds produced with a special alloy and sensitive workmanship guarantee continued production by our customers for a long period without compromising the product quality. Long lifetime keeps investment costs at lowest level.



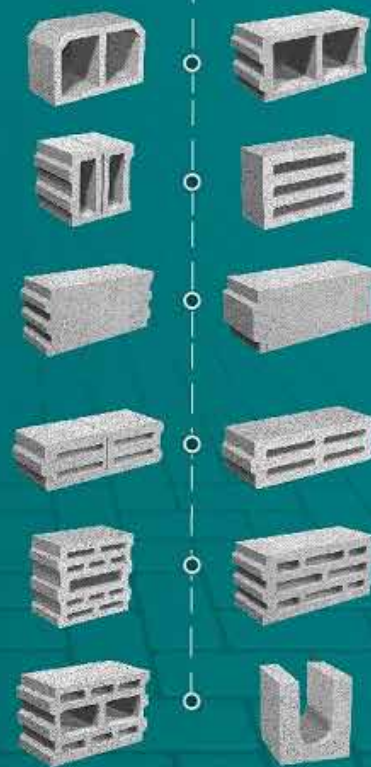
Mold Production Samples



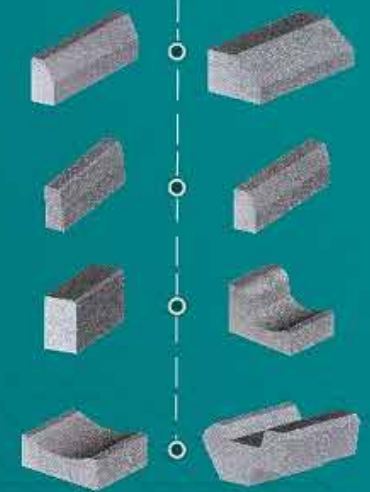
Decorative Stones



Briquette



Concrete Blocks

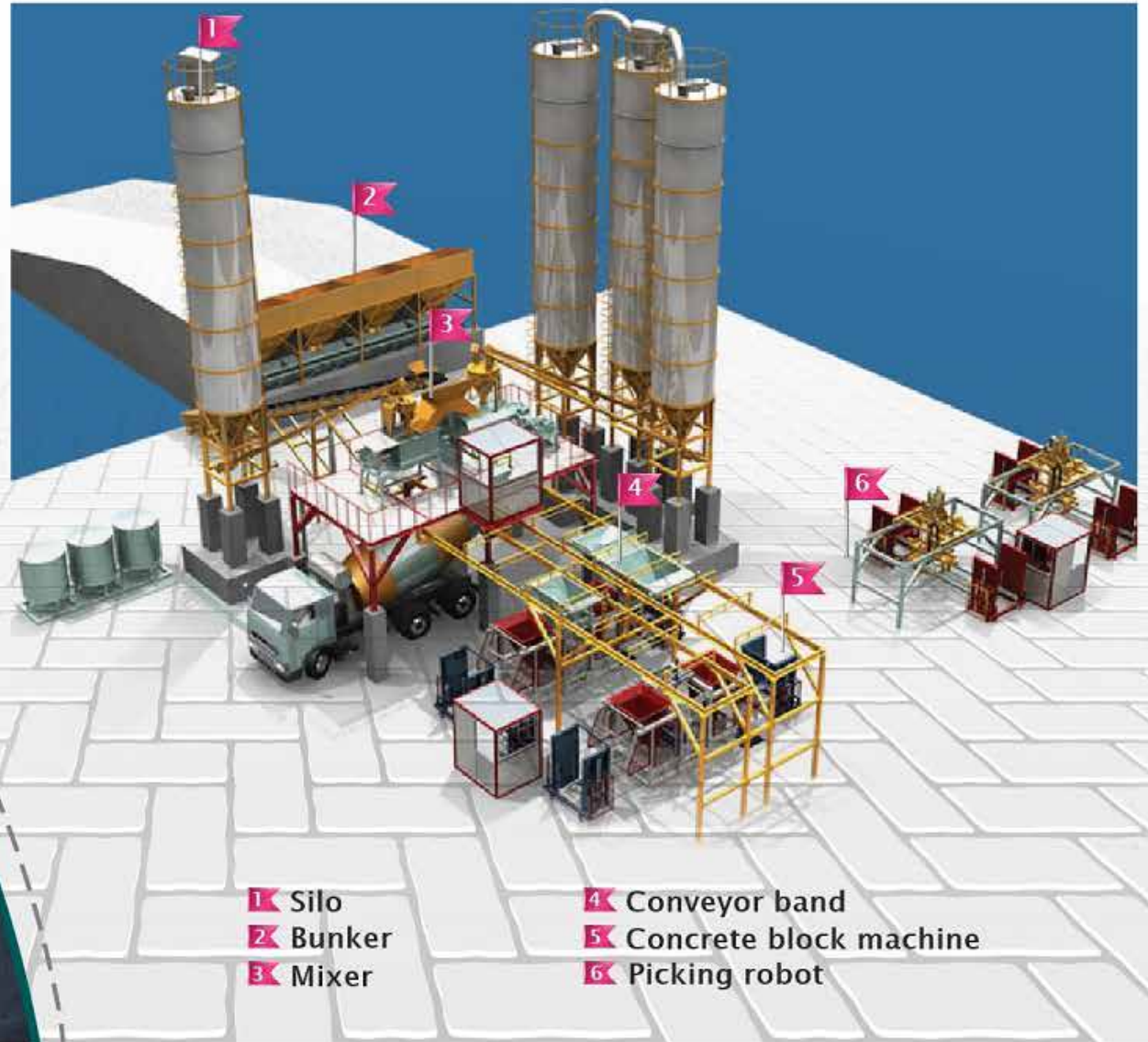


✚ Molds are manufactured to work compatible with all brands and models.

MRG Facility Production Scheme

MRG concrete block production facilities is a careful planning in which demands and opportunities are in place in terms of economic success and long-term growth opportunities are taken into account from the beginning.

Prepared in order to maximize investors power of market competition, MRG production facilities help investors have a say in the sector in terms of production of both ready-made concrete and stone block.



Technical Specifications

MRG-2515

MRG-3615

Control	Automatic (PLC)	Automatic (PLC)
Pallet dimensions	950mm X 950mm	1150mm X 1500mm
Space of use on the pallet	850mm X 850mm	1050mm X 1250mm
Maximum product height	200mm	200mm
Minimum product height	50mm	50mm
Body dimensions	2180mm X 13000mm X 2380mm	2750mm X 14000mm X 3100mm
Body weight	13000Kg	17500Kg
Hydraulic tank capacity	390Lt. X 520Lt.	1050Lt. X 1400Lt.
Mortar tank capacity	1300Lt.	2650Lt.
Hydraulic car capacity	150Lt.	400Lt.
Hydraulic unit	20Kw	40Kw
Bottom electric motors	2x5.5 (Max:50Kw)	2x5.5 (Max:50Kw)
Top vibromotor	2x4 (Max:18Kw)	2x4 (Max:18Kw)
Pallet feeding motor	1Kw	1Kw
Distribution band motor	1.5Kw	1.5Kw
Total electric motor power (machine)	60Kw	95Kw
Total electric motor power (plant)	110Kw	170Kw

You can contact us through our contact information for purchasing demands external to the facility. (Mold, silos, bunkers, mixing system, transport system and picking robot)







Capacity data are theoretical values; can vary depending on raw material characteristics, the mixture recipe, and location and weather conditions.

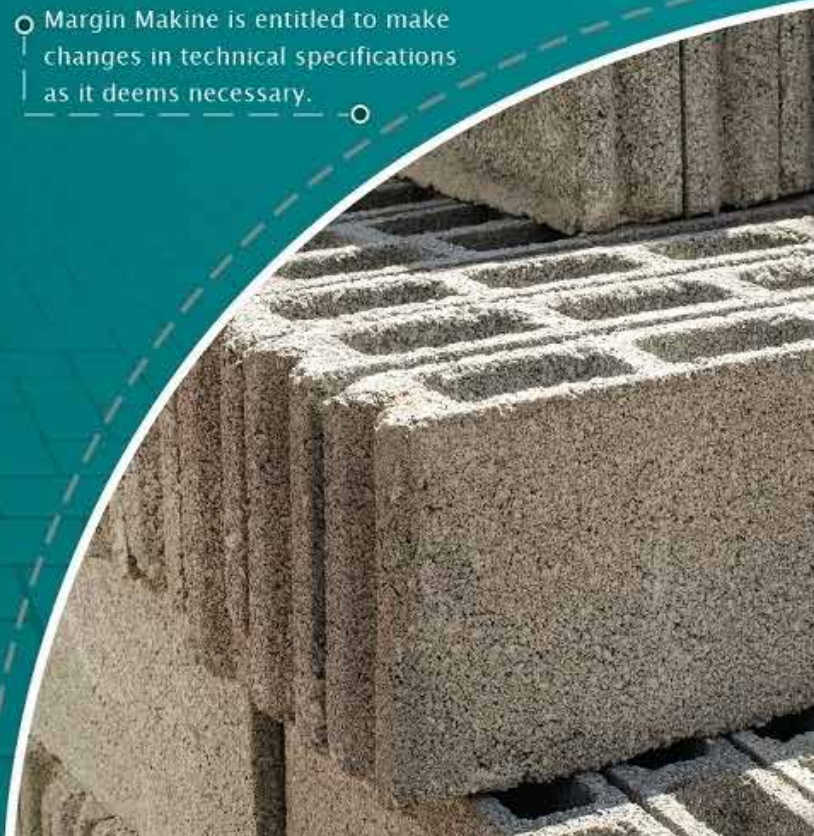
Margin Makine is entitled to make changes in technical specifications as it deems necessary.

Print Speeds

MRG-2515

MRG-3615

			MRG-2515		MRG-3615	
			Piece/single print	Pieces/1 day (8 hours)	Piece/single print	Pieces/1 day (8 hours)
Decorative stones	 Lock	163x198x80	25	20.000	36	28.800
	 Square	99x199x80	32	15.360	54	43.200
	 Rectangular	99x99x80	64	30.720	99	79.200
Borders		700x300x160	2	1.600	4	3.200
		500x300x160	2	1.600	8	6.400
Gutter		400x400x120	4	3.200	4	3.200



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